Human 33410

Carboxylesterase Domain

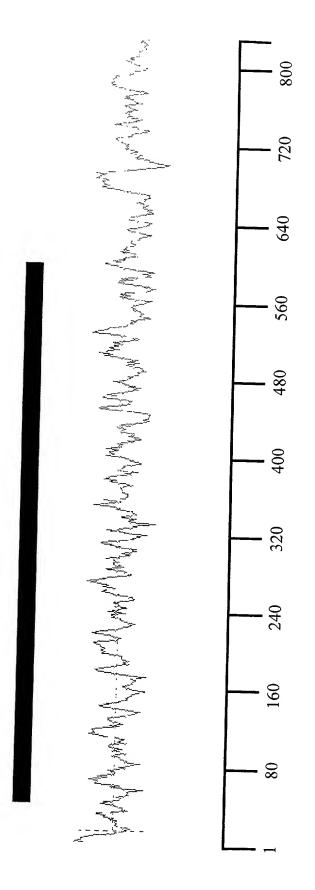


FIG. 1

COesterase:	domain	1 of 1, from 42 to 601: score 440.0, E = 2.1e-128 *->llVatnnVlcGkvrGvnektdngeqsvysFlGIPYAePPVGnLR	
Fbh33410FL	42	++V+t + G vrGv++ ++n+ g +v FlG+PYA PP+G R PVVNTAYGRVRGVRRELNNeilGPVVQFLGVPYATPPLGARR	83
Fbh33410FL	84	FkaPqPYkepWsdvldAtkyppsClQdddfgfslsdLKva.lkmlslgwn F +P+ + W +v++At+ pp+C+Q+ g +++ +ml+ ++ FQPPEA-PASWPGVRNATTLPPACPQNLH-GALpAIMLPVWFT	124
Fbh33410FL	125	klvglklsEDCLYLNVytPkntkpns ++ + +sEDCLYLN y+P + p +++++ +++++++++++++++++++++++++	174
Fbh33410FL	175	.klPVmVwIhGGGFmfGsghslplslYdgeslaregnVIvVsiNYRLGpl +k PVm + hGG +m G+g + dg+ la+ gnVIv ++NYRLG+l gKKPVMLFLHGGSYMEGTGNMFDGSVLAAYGNVIVATLNYRLGVL	219
Fbh33410Fl	L 220	GFLstgddklpgsGNyGLlDQrlALkWVqdNIaaFGGDPnsVTifGeSAG GFLstgd + GNyGLlDQ+ AL+W +NIa+FGGDP+++TifG AG GFLSTGDQAAKGNYGLLDQIQALRWLSENIAHFGGDPERITIFGSGAG	
Fbh33410Fl	L 268	aaSVsllllsngGDNppsskgLFhRAIsqSGsalspwaiqsesnargrak a+ V ll+ls +s+gLF++AI qSG+a+s w++ + ++ ASCVNLLILSHHSEGLFQKAIAQSGTAISSWSVNYQPLKYTR	309
Fbh33410F	և 310	elarllGCnetssselldCLRsksaeeLleatrsfllfeyvpflplflaF la+++GC++++s+e ++CLR+k+++eL++ ++++y + + LLAAKVGCDREDSAEAVECLRRKPSRELVDQDVQPARYHIAFG	352
Fbh33410FI	i 353	<pre>gPvvDGdDapeafipedPeelikeGkfadvPyliGvtkdEGgyfaamlln PvvDGd ++p+dPe+l +G f + ++liGv++ EG+ f + -PVVDGDVVPDDPEILMQQGEFLNYDMLIGVNQGEGLKFVE</pre>	392
Fbh33410FI	<u>3</u> 93 ت	asskgedelkketnpdvwlellkyllfyasealnikdMddladkvlekYp +s+ +ed ++ +++ + ++ 1++ +e + d l ++++ Y+ DSAESEDGVSASAFDF-TVSNFVDNLYGYPEGKDVLRETIKFMYT	
Fbh33410FL	437 ـ	gdvddfsvesrkpnlqdmltDllFkcptrvaadlhakhggsPvYaYvfdh +++d+ e r++ l+ ++tD+ + p +va ++ +++ +sPvY+Y f h DWADRDNGEMRRKTLLALFTDHQWVAP-AVATAKLHADYQSPVYFYTFYH	1
Fbh33410FL	486	<pre>pasfgigQflakrvdpefggavHgdEiffvFgnpllkeqlykateee + +</pre>	
Fbh33410FL	528	eksssktmmnywanFAktGnPnngtsnglvvWpkytse +++s ++m yw+nFAktG+Pn++ + +t ++++++++vvW k++s+ VMLS-AVVMTYWTNFAKTGDPNqpvpQDTKfihtkpnrFEEVVWSKFNSK	_
Fbh33410FL	577	eqkYsllillttitaqklkardprkvlcnfw<-* e +l+i l+ ++++a++ ++fw EKQ-YLHIGLKPRVRDNYRANKVAFW 601	

Fbh33410FL	MWLLALCLVGLAGAQRGGGGPGGGAPGGPGLGLGSLGEERFPVVNTAYGRVRGVRRELNN
ratNL2 =	MWLLALCLVGLAGAQRGGGGPGGGAPGGPGLGLGSLGEERFPVVNTAYGRVRGVRRELNN ***********************************
Fbh33410FL ratNL2	EILGPVVQFLGVPYATPPLGARRFQPPEAPASWPGVRNATTLPPACPQNLHGALPAIMLP EILGPVVQFLGVPYATPPLGARRFQPPEAPASWPGVRNATTLPPACPQNLHGALPAIMLP ************************************
Fbh33410FL ratNL2	VWFTDNLEAAATYVQNQSEDCLYLNLYVPTEDGPLTKKRDEATLNPPDTDIRDPGKKPVM VWFTDNLEAAATYVQNQSEDCLYLNLYVPTEDGPLTKKRDEATLNPPDTDIRDSGKKPVM ************************************
Fbh33410FL ratNL2	LFLHGGSYMEGTGNMFDGSVLAAYGNVIVATLNYRLGVLGFLSTGDQAAKGNYGLLDQIQ LFLHGGSYMEGTGNMFDGSVLAAYGNVIVATLNYRLGVLGFLSTGDQAAKGNYGLLDQIQ ***********************************
Fbh33410FL ratNL2	ALRWLSENIAHFGGDPERITIFGSGAGASCVNLLILSHHSEGLFQKAIAQSGTAISSWSV ALRWLSENIAHFGGDPERITIFGSGAGASCVNLLILSHHSEGLFQKAIAQSGTAISSWSV **********************************
Fbh33410FL ratNL2	NYQPLKYTRLLAAKVGCDREDSAEAVECLRRKPSRELVDQDVQPARYHIAFGPVVDGDVV NYQPLKYTRLLAAKVGCDREDSTEAVECLRRKSSRELVDQDVQPARYHIAFGPVVDGDVV ********************************
Fbh3410FL ratNL2	PDDPEILMQQGEFLNYDMLIGVNQGEGLKFVEDSAESEDGVSASAFDFTVSNFVDNLYGY PDDPEILMQQGEFLNYDMLIGVNQGEGLKFVEDSAESEDGVSASAFDFTVSNFVDNLYGY ***********************************
Fbh33110FL catNL2	PEGKDVLRETIKFMYTDWADRDNGEMRRKTLLALFTDHQWVAPAVATAKLHADYQSPVYF PEGKDVLRETIKFMYTDWADRDNGEMRRKTLLALFTDHQWVAPAVATAKLHADYQSPVYF ************************************
Tbh33410FL catNL2	YTFYHHCQAEGRPEWADAAHGDELPYVFGVPMVGATDLFPCNFSKNDVMLSAVVMTYWTN YTFYHHCQAEGRPEWADAAHGDELPYVFGVPMVGATDLFPCNFSKNDVMLSAVVMTYWTN ************************************
bh33410FL atNL2	FAKTGDPNQPVPQDTKFIHTKPNRFEEVVWSKFNSKEKQYLHIGLKPRVRDNYRANKVAF FAKTGDPNQPVPQDTKFIHTKPNRFEEVVWSKFNSKEKQYLHIGLKPRVRDNYRANKVAF ************************************
bh33410FL atNL2	WLELVPHLHNLHTELFTTTTRLPPYATRWPPRPP-AGAPGTRRPPPPATLPPEPEPEPGP WLELVPHLHNLHTELFTTTTRLPPYATRWPPRTPGPGTSGTRRPPPPATLPPESDIDLGP ************************************
bh33410FL atNL2	RAYDRFPGDSRDYSTELSVTVAVGASLLFLNILAFAALYYKRDRRQELRCRRLSPPGGSG RAYDRFPGDSRDYSTELSVTVAVGASLLFLNILAFAALYYKRDRRQELRCRRLSPPGGSG ********************************
bh33410FL atNL2	SGVPGGGPLLPAAGRELPPEEELVSLQLKRGGGVGADPAEALRPACPPDYTLALRRAPDD SGVPGGGPLLPTAGRELPPEEELVSLQLKRGGGVGADPAEALRPACPPDYTLALRRAPDD ***********************************
oh33410FL atNL2	VPLLAPGALTLLPSGLGPPPPPPPPSLHPFGPFPPPPPTATSHNNTLPHPHSTTRV VPLLAPGALTLLPSGLGPPPPPPPPSLHPFGPFPPPPPTATSHNNTLPHPHSTTRV ***********************************

Fbh33410FL KIAA1366	MWLLALCLVGLAGAQRGGGGPGGGAPGGPGLGLGSLGEERFPVVNTAYGRVRGVRRELNN
Fbh33410FL KIAA1366	EILGPVVQFLGVPYATPPLGARRFQPPEAPASWPGVRNATTLPPACPQNLHGALPAIMLP
Fbh33410FL KIAA1366	VWFTDNLEAAATYVQNQSEDCLYLNLYVPTEDGPLTKKRDEATLNPPDTDIRDPGKKPVM
Fbh33410FL KIAA1366	LFLHGGSYMEGTGNMFDGSVLAAYGNVIVATLNYRLGVLGFLSTGDQAAKGNYGLLDQIQ
7bh33410FL (IAA1366	ALRWLSENIAHFGGDPERITIFGSGAGASCVNLLILSHHSEGLFQKAIAQSGTAISSWSV
bh33410FL (IAA1366	NYQPLKYTRLLAAKVGCDREDSAEAVECLRRKPSRELVDQDVQPARYHIAFGPVVDGDVV NYQPLKYTRLLAAKVGCDREDSAEAVECLRRKPSRELVDQDVQPARYHIAFGPVVDGDVV ********************************
'bh33410FL IAA1\$66	PDDPEILMQQGEFLNYDMLIGVNQGEGLKFVEDSAESEDGVSASAFDFTVSNFVDNLYGY PDDPEILMQQGEFLNYDMLIGVNQGEGLKFVEDSAESEDGVSASAFDFTVSNFVDNLYGY ***********************************
bh33410FL IAA1366	PEGKDVLRETIKFMYTDWADRDNGEMRRKTLLALFTDHQWVAPAVATAKLHADYQSPVYF PEGKDVLRETIKFMYTDWADRDNGEMRRKTLLALFTDHQWVAPAVATAKLHADYQSPVYF ************************************
bh33410FL IAA1366	YTFYHHCQAEGRPEWADAAHGDELPYVFGVPMVGATDLFPCNFSKNDVMLSAVVMTYWTN YTFYHHCQAEGRPEWADAAHGDELPYVFGVPMVGATDLFPCNFSKNDVMLSAVVMTYWTN ************************************
bh33410FL IAA1366	FAKTGDPNQPVPQDTKFIHTKPNRFEEVVWSKFNSKEKQYLHIGLKPRVRDNYRANKVAF FAKTGDPNQPVPQDTKFIHTKPNRFEEVVWSKFNSKEKQYLHIGLKPRVRDNYRANKVAF ************************************
bh33410FL IAA1366	WLELVPHLHNLHTELFTTTTRLPPYATRWPPRPPAGAPGTRRPPPPATLPPEPEPEPGPR WLELVPHLHNLHTELFTTTTRLPPYATRWPPRPPAGAPGTRRPPPPATLPPEPEPEPGPR ***********************************
oh33410FL IAA1366	AYDRFPGDSRDYSTELSVTVAVGASLLFLNILAFAALYYKRDRRQELRCRRLSPPGGSGS AYDRFPGDSRDYSTELSVTVAVGASLLFLNILAFAALYYKRDRRQELRCRRLSPPGGSGS *******************************
)h33410FL (AA1366	GVPGGGPLLPAAGRELPPEEELVSLQLKRGGGVGADPAEALRPACPPDYTLALRRAPDDV GVPGGGPLLPAAGRELPPEEELVSLQLKRGGGVGADPAEALRPACPPDYTLALRRAPDDV ***********************************
h33410FL AA1366	PLLAPGALTLLPSGLGPPPPPPPPSLHPFGPFPPPPPTATSHNNTLPHPHSTTRV PLLAPGALTLLPSGLGPPPPPPPPSLHPFGPFPPPPPTATSHNNTLPHPHSTTRV ***********************************